

DaimlerChrysler AG

Patent claims

- 5 1. A device (1) for severing a hollow profile (2),
shaped according to the internal high pressure forming
process, transversely to its longitudinal extent (3),
comprising an encircling cutting edge (4) which is
arranged in or at an encircling recess (5) which is
10 formed in an inner wall (6) of the device (1),
characterized
- in that sealing elements (7) are provided on the inner
wall (6),
 - at least one sealing element (7) being arranged in each
15 case on both sides of and parallel to the cutting edge
(4).
2. The device as claimed in claim 1, characterized in
that the encircling recess (5) is of wedge-shaped design
20 in profile.
3. The device as claimed in claim 1 or 2, characterized
in that the recess (5) is configured in such a way that
it expands the hollow profile (2) in the region of the
25 recess (5) during the severing.
4. The device as claimed in one of claims 1 to 3,
characterized in that the cutting edge (4) is formed at
the transition (8) between inner wall (6) and recess (5).
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5. The device as claimed in claim 1, characterized
- in that the cutting edge (4) is designed as an
interchangeable parting blade (9), or
 - in that the cutting edge (4) forms an integral part

(10) of the inner wall (6).

6. The device as claimed in one of claims 1 to 5,
characterized in that the sealing element (7) is formed
5 from plastic, in particular an elastomer.

7. The device as claimed in one of claims 1 to 6,
characterized in that the inner wall (6) has at least one
receptacle (11), into which the sealing element (7) is
10 inserted.

8. The device as claimed in one of claims 1 to 7,
characterized in that the sealing elements (7) conceal
the cutting edge (4) and do not release the latter until
15 during deformation.

9. The device as claimed in one of claims 1 to 8,
characterized in that the sealing elements (7) are
arranged on both sides of the recess (5).
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10. The device as claimed in one of claims 1 to 9,
characterized in that the device (1) is dimensioned in
such a way that the hollow profile (2) is severed at a
calibrating pressure at which a hollow profile blank
25 bears completely against the inner wall (6).